

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of  
Joseph J. Shiang et al.



Serial No.:

Group Art Unit:

Filed:

Examiner:

For: ORGANIC ELECTROLUMINESCENT DEVICE  
WITH A CERAMIC OUTPUT COUPLER AND  
METHOD OF MAKING THE SAME

**INFORMATION DISCLOSURE STATEMENT**

Honorable Assistant Commissioner for Patents  
Washington DC 20231

SIR:

This Information Disclosure Statement is being filed under 37 CFR 1.56 for a continuing application which relies on the filing date of its parent application, such parent application being identified as:

U.S. patent application Serial No.: 09/760,150

Filed: January 16, 2001

Inventor(s): Joseph J. Shiang et al.

Title: ORGANIC ELECTROLUMINESCENT DEVICE WITH A CERAMIC OUTPUT  
COUPLER AND METHOD OF MAKING THE SAME

Enclosed are Forms PTO-1449 listing all "prior art" cited in each Form PTO-1449 submitted in the parent application and in each Form PTO-892 cited in the parent application. Pursuant to 37 CFR 1.98(d), no actual copies of documents listed on such forms are being furnished to the PTO with this Information Disclosure Statement.

Date: November 18, 2003

Respectfully  
Submitted,

Toan P. Vo.

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FORM PTO-1449  
(REV. 7-80)  
(Title Amended 3/83)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

RD-28230-3

SERIAL NO.

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT--

## LIST OF ITEMS

Applicant

Joseph J. Shiang et al.

Filing Date

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Use several sheets if necessary )

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA 5 9 5 5 8 3 7	09/21/99	Hor[kx et al			
	AB 5 7 0 8 1 3 0	01/13/98	Woo et al.			
	AC 5 2 9 4 8 7 0	03/15/94	Tang et al.			
	AD 5 9 0 0 3 8 1	05/04/99	Lou et al.			
	AE 5 3 1 3 3 2 5	05/17/94	Lauf et al.			
	AF 5 6 4 4 3 2 7	07/01/97	Onyskevych et al.			
	AG 6 3 8 8 3 7 5	05/14/02	Pinckney et al.			
	AH 5 8 3 1 6 9 9	11/03/98	Wright et al.			
	AI 6 2 0 8 0 7 7	03/27/01	Hung, Liang-Sun			
	AJ 6 4 2 9 5 8 5	08/06/02	Kitazume et al.			
	AK 6 5 2 1 3 6 0	02/18/03	Lee et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	No
	AL						
	AM						
	AN						
	AO						
	AP						

## OTHER INFORMATION (Including Author, Title, Date, Pertinent pages. Etc.)

AR	Madigan et al., "Improvement of Output Coupling Efficiency of Organic Light Emitting Diodes by Backside Substrate Modification", Applied Physics Letters, Vol. 76, No. 13, pages 1650-16152 (2000)
AS	Carr, "Photometric Figures of Merit for Semiconductor Luminescent Sources Operating in Spontaneous Mode", Infrared Physics, Vol. 6, pages 1-19 (1966)
AT	Schnitzer et al., "30% External Quantum Efficiency from Surface Textured, Thin-Film Light-Emitting Diodes", Appl. Phys. Lett. 63 (16), pages 2174-2176 (1993)

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(REV. 7-80)  
(Title Amended 3/83)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

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RD-228230-3

SERIAL NO.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT--

LIST OF ITEMS

Applicant

Filing Date

Group

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OTHER INFORMATION (Including Author, Title, Date, Pertinent pages. Etc.)

AU	Crawford et al., "Light-Emitting Diodes", Encyclopedia of Applied Physics, Vol. 8, pages 485-514 (1994)
AV	Lai et al., "Improved External Efficiency of Light Emitting Diode Using Organic Thin Film", CLEO Conference Proceedings, Pacific Rim 99, WL6, pp. 246-47 (1999)
AW	Gu et al., "High External-Quantum-Efficiency Organic Light-Emitting Devices", Optics Letters 6, Vol. 22, pp. 396-398 (1977)
AX	Gerrit Klarner et al., "Colorfast Blue Light Emitting Random Copolymers Derived from Di-n-hexylfluorene and Anthracene", 10 Adv. Mater. pp. 993-997 (1998)
AY	Junji Kido et al., "Organic Electroluminescent Devices Based on Molecularly Doped Polymers", 61 Appl. Phys. Lett., pp. 761-763 (1992)
AZ	Chung-Chih Wu et al., Efficient Organic Electroluminescent Devices Using Single-Layer Doped Polymer Thin Films with Bipolar Carrier Transport Abilities", 44 IEEE Trans. On Elec. Devices, pp. 12699-1282 (1997)
BU	A.W. Grice et al., "High Brightness and Efficiency of Blue Light-Emitting Polymer Diodes", 73 Appl. Phys. Letters, pp. 629-631 (1998)
BV	Hiroyuki Suzuki et al., "Near-ultraviolet Electroluminescence from Polysilanes", 331 Thin Solid Films, pp. 64-70 (1998)
BW	P.S. Mudgett et al., "Multiple Scattering Calculations for Technology", 10 Appl. Optics, pp. 1485-1502 (1971)
BX	
BY	
BZ	

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